

Customer No. 22,852 Attorney Docket No. 04329.2756

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)
Masakazu SUZUKI et al.  Serial No.: Not Yet Assigned  Filed: March 5, 2002	) Group Art Unit: Not yet assigned ) ) Examiner:
For: MATHEMATICAL EXPRESSION RECOGNIZING DEVICE, MATHEMATICAL EXPRESSION RECOGNIZING METHOD, CHARACTER RECOGNIZING DEVICE AND CHARACTER RECOGNIZING METHOD	·

Assistant Commissioner for Patents Washington, DC 20231

Sir:

## **INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§1.56 and 1.97(b), applicants bring to the Examiner's attention the documents listed on attached Form PTO-1449. Copies of the listed documents are attached. Applicants respectfully request that the Examiner consider the documents listed on attached Form PTO-1449 and indicate that they were considered by making an appropriate notation on this form.

This Information Disclosure Statement is being filed with the above-referenced application.

FINNEGAN HENDERSON FARABOW GARRETT& DUNNER LLP

1300 l Street, NW Washington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com

Customer No. 22,852 Attorney Docket No. 04329.2756

The following is a concise statement of relevance for each of the non-English language documents:

- 1. Offline Recognition of the Structure of Mathematical Expressions by

  Spanning Tree of Minimum Cost discloses a method of analyzing the structures of mathematical formulas. The structure of a mathematical formula is determined by expressing mathematical formula likeness as a network and obtaining a spanning tree of the minimum cost of the network.
- Mathematical Expression Recognition by Projection Profile Characteristics
   The relevance of this document is discussed at pages 2 and 3 of the specification of the present application.
- 3. <u>Mathematical Expression Recognition By The Layout of Symbols</u> The relevance of this document is discussed at page 3 of the specification of the present application

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed

FINNEGAN HENDERSON FARABOW GARRETT& DUNNER LLP

1300 I Street, NW Washington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com

Customer No. 22,852 Attorney Docket No. 04329.2756

appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: March 5, 2002

Richard V. Burgujian

Ŕeg. No. 31,744

RVB/FPD/bl

**Enclosures** 

FINNEGAN HENDERSON FARABOW GARRETT& DUNNER LLP

1300 I Street, NW Washington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com



## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	04239.2756	Serial No. N	PTO			
Applicant	Masakazu SUZUKI e	t al.			<u>.</u>	o.E.
Filing Date	March 5, 2002	Group:	0 6 0 / 08			
			T DOOL 11 TO 1	·-		3087
		U.S. PAIEN	T DOCUMENTS			
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
			•		<del>                                     </del>	
						•
				<u> </u>	<u> </u>	
-		FOREIGN PAT	ENT DOCUMENTS			
	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
	OTHER DOCUMEN		- <u></u>			
	Richard J. FATEMAN MATHEMATICS", Jo (October 1995)	l et al., "OPTICAL Cournal of Visual Con	CHARACTER RECO	GNITION AN age Represer	ID PARSING ntation, Vol. 7	OF TYPESET , No. 1, pp. 2-15
	Masayuki OKAMOTO SYMBOLS", D-II Vol.				TION BY THE	LAYOUT OF
	Masayuki OKAMOTO CHARACTERISTICS					DJECTION PROFILE
	Yuko ETO et al., "OF BY SPANNING TREI Communication Engi	E OF MINIMUM CO	ST", , PRMU 99-236	CTURE OF M 6, The Institut	IATHEMATIC e of Electroni	AL EXPRESSIONS cs, Information and